

(1) GENERATOR NAME Umetco Minerals Corp

ADDRESS 137 4TH Street

CITY Niagara Falls, N.Y. STATE N.Y. 14302

CONTACT G.E. Walck PHONE 716-278-3361

(2) **consigned to**  
CHEM NUCLEAR SYSTEMS, INC  
P O BOX 726, OSBORN ROAD  
BARNWELL, S C 29812

## BARNWELL WASTE MANAGEMENT FACILITY

Operated by CHEM-NUCLEAR SYSTEMS, INC  
P O Box 726, Barnwell, South Carolina 29812  
(803) 259-1781

### RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON  
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO

0884-3224

PAGE 1

OF 2

(4)

CARRIER TMT ADDRESS JOPLIN, Mo.

TELEPHONE 816-641-7591 SHIPPING DATE Aug 14, 1984

SHIPMENT TYPE VAN SHIPMENT SURFACE EXPOSURE .05 mR/hr

SHIPMENT NO 615-3001 LINER SERIAL NO NA

DRIVER SIGNATURE R. E. Walck DATE 8-14-84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172 101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>8</u>	<u>42.515</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
		ALL ISOTOPES	TRITIUM	C 14	Tc 99	I 129	
<u>520</u>	<u>8</u>	<u>.054</u> <u>.068</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>.8</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
U-233	<u>0</u>
U 235	<u>0</u>
TOTAL	<u>0</u>

(8)

TOTAL PALLET

VOLUME (CU FT) 0

(9) WASTE DESCRIPTION Contaminated Building rubble/plast hardware (10) PHYSICAL FORM/  
SOLIDIFICATION AGENT DAW / Solid

(13) ☒ Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE. LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature Earl E. Reagan Jr agent for Umetco Minerals Corp G.E. Walck  
Company Umetco Minerals Corp Date 8-14-84

(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) METAL Oxides

(12) WASTE FORM CLASS ☒ A ☐ B ☐ C

(15) "Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended, and the Nuclear Regulatory Commission's License No 12-13536 01 as amended, and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations "

Date 8-14-84 By Earl E. Reagan Jr for G.E. WALCK  
Title and Organization agent for Umetco Minerals Corp  
Telephone No (803) 256-4355 / 716-278-3361

CNSI USE ONLY

☒ This material meets all license requirements

☒ This material was disposed of in accordance with license

☐ Discrepancy None

AUG 24 1984

Date 8-23-84

Authorized Signature [Signature]

Title [Signature]

UCCNHT0002370

(1) GENERATOR NAME UMETCO Minerals Corp  
ADDRESS 137 4TH Street

CITY NIAGARA Falls, N.Y. STATE N.Y. 14302  
CONTACT G.E. Walck PHONE 716-278-3361

(2) **consigned to**  
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(803) 259-1781  
**RADIOACTIVE SHIPMENT MANIFEST FORM**

(3) USE THIS NUMBER ON  
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VOLUME ALLOCATION NO  
0984-322A

PAGE 2  
OF

(4) CARRIER TMT ADDRESS JOPLIN, Mo.  
TELEPHONE 800-641-7591 SHIPPING DATE Aug. 14, 1984  
SHIPMENT TYPE VAN SHIPMENT SURFACE EXPOSURE \_\_\_\_\_ mR/hR  
SHIPMENT NO 615-3001 LINER SERIAL NO NA  
DRIVER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>3</u>	<u>42.515</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS						
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)				
		ALL ISOTOPES	TRITIUM	C 14	Tc 99	I 129
<u>520</u>	<u>8</u>	<u>.068</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	<u>0</u>
U 235	<u>0</u>
TOTAL	<u>0</u>

(8) TOTAL PALLET  
VOLUME (CU FT) 0

(9) WASTE DESCRIPTION CONTAMINATED Building rubble/plant hardware (10) PHYSICAL FORM/  
SOLIDIFICATION AGENT DAW / solid

(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) METAL Oxides

(12) WASTE FORM CLASS NA ☐ A ☐ B ☐ C

(13) ☒ Yes ( ) No THIS VEHICLE IS CONSIGNEE EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

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(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation"  
Signature G.E. Walck  
Earl E. Reagan Jr agent for Umetco Minerals Corp  
Company - Umetco Minerals Corp Date 8-14-84

Date 8-14-84 By Earl E Reagan Jr for G.E. Walck  
Title and Organization agent for Umetco Minerals Corp  
Telephone No (803) 256-4355 / 716-278-3361

**CNSI USE ONLY**

☐ This material meets all license requirements  
☐ This material was disposed of in accordance with license  
☐ Discrepancy \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Date \_\_\_\_\_  
Authorized Signature \_\_\_\_\_ Title \_\_\_\_\_

**CUSTOMER'S COPY**

Form No CNS-201  
(9-83)

SEE INSTRUCTIONS ON REVERSE SIDE  
FOR FILLING OUT THIS FORM

Arrival Date \_\_\_\_\_ Arrival Survey No \_\_\_\_\_  
Date/Time Buried \_\_\_\_\_ H P Initial \_\_\_\_\_  
Trench No \_\_\_\_\_ Location Code \_\_\_\_\_  
Waste Class Code \_\_\_\_\_  
Personnel Exposure \_\_\_\_\_

UCCNHT0002371

## CHEM-NUCLEAR SYSTEMS, INC.

## INSTRUCTIONS FOR COMPLETING RADIOACTIVE SHIPMENT MANIFEST FORM

NOTE SHIPMENT MAY BE REFUSED IF CONTENTS, SUPPORTING DOCUMENTATION AND PACKAGING REQUIREMENTS ARE NOT IN COMPLIANCE WITH CHEM NUCLEAR SYSTEMS, INC.'S STATE AND FEDERAL LICENSES, THE BARNWELL SITE CRITERIA AND APPLICABLE DOT AND NRC SHIPPING REGULATIONS.

GENERATOR OR SHIPPER MUST PROVIDE (PRINTED OR TYPED) INFORMATION IN ALL NUMBERED AREAS ON THE RSM FORM. USE OF N/A FOR "NOT APPLICABLE" IS AUTHORIZED.

- | ITEM | DESCRIPTION OF ITEMS   |
|------|--|
| 1    | Indicate generator name (consignor), address, contact person and phone number of person responsible for making shipment  |
| 2    | Consignee: If shipment is being made to some other facility and this form is being used, blot out this section and write in who the consignee is   |
| 3    | Each shipment is assigned a volume allocation number by the Barnwell office. Write the number in this space and use this same number on all continuation pages used for each shipment. Number all pages in chronological order   |
| 4    | List the carrier, address, telephone number, shipping date, shipment type (van, cask, etc.), shipment surface exposure (highest radiation exposure on the exterior of the van, cask, etc.), shipment number, liner serial number, driver signature and date  |
| 5    | Indicate the total number of containers and the total weight, in pounds, of each hazard class  |
| 6    | Record the cumulative total of all hazard classes in these blocks. Check appropriate box for the units of activity measurements. If the stated radioisotopes listed in the four (4) columns are not present, record in the blocks as "not present" (N P). If the radioisotopes do exist, but are in quantities less than the lower limits of detection (LLD), the quantities of the nuclides must be recorded as being less than the minimum detectable. The minimum detectable amount must be included in parenthesis. Isotopes U-238, Th-232, or any other material which is source material must be recorded in source pounds |
| 7    | List weight, in grams, of special nuclear material   |
| 8    | Record volume, in ft <sup>3</sup> , of all disposable pallets  |
| 9    | SEE ITEM NO. 22  |
| 10   | SEE ITEM NO. 20  |
| 11   | SEE ITEM NO. 21  |
| 12   | SEE ITEM NO. 23  |
| 13   | Indicate if shipment is transported as exclusive use or not applicable. If "yes" is checked, <b>instructions for maintenance of exclusive use vehicles must be provided by the shipper to the carrier</b>  |
| 14   | A company representative of the generator must sign the DOT certification. All signatures must be legible  |
| 15   | A company representative of the generator must sign the S.C. DHEC certification. Title, organization and phone number must be indicated. The date must be within 48 hours of the shipping date as specified in block 4. Under no circumstances should the shipping date be prior to the certification date of block 15. All signatures must be legible   |
| 16   | List each container separately. Item number(s) on the disposal container(s) must correspond with item number(s) listed on the RSM form   |
| 17   | List the prominent radionuclides in each container. Use of MFP or MCP are not authorized. Use as many lines as necessary to describe the contents of the container. NOTE: If more than one container in the shipment contains the same activity distribution of each radionuclide, a listing of radionuclides is required for the first container only. Subsequent containers in this series will require a lone line entry with appropriate information on each. Use of the words, "See attached", is not an appropriate entry  |
| 18   | Record the percent abundance of each radionuclide or the activity of each radionuclide in mCi, in each container (See #17 above)   |
| 19   | Record the cumulative total of all isotopes in each container, in mCi  |
| 20   | Record the physical form of the waste material. "Liquid" is not authorized   |
| 21   | Record the chemical form of the waste material. <b>NOTE:</b> If material contains chelating agents in quantities greater than 0.1%, the names and weight percentage must be listed   |
| 22   | Describe briefly what the waste is. If the material is solidified, indicate what solidification media is used. EX: Compacted trash, non-compacted trash, dewatered resin, solidified liquid in cement, solidified resin in cement, filters in cement, compacted lab trash or non-compacted lab trash, building rubble, metal components, etc   |
| 23   | List the classification of the waste package, either A, B, or C per 10 CFR 61.55   |
| 24   | Indicate the waste as being Stable (S) or Unstable (U) 10 CFR 61.56  |
| 25   | Weight, in grams, of the isotopes U-233 or U-235 or any other material which is special nuclear material   |
| 26   | Weight, in pounds, of the isotopes U-238, Th-232, or any other material which is source material   |
| 27   | Weight, in pounds, of each disposable container including its contents   |
| 28   | Record the volume, in ft <sup>3</sup> , of the disposable container. Boxes with attached skids must include the skids in this volume. Drum pallets or spacers inside <b>casks</b> are not classified as radioactive waste  |
| 29   | List each type of container used, (wood box, steel box) drum, 17H, 17E, STC, etc   |
| 30   | Record the highest measured radiation level for each <b>disposable</b> container surface. Package surface may be the same as disposable container if a cask is <b>not</b> used. Transport Index (TI) equals mR/hr at 1 meter from accessible container(s)  |
| 31   | Record the results of contamination surveys performed on the disposable containers. Do not use "BKG" for background levels unless the background level is indicated in this column   |
| 32   | Indicate DOT sub-types as A1, A2, LSA, etc. 49 CFR 173.403   |
| 33   | If fissile radioactive material is being shipped, record the fissile class of the material as appropriate  |
| 34   | Write in what kind of DOT labels or markings are used on each container. Such as Radioactive W 1, Y 11, Y 111 or Radioactive-LSA   |

UCCNHT0002372

Operated by CHEM-NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO  
ALL CONTINUATION PAGES

PAGE 2 OF 2

## CONTINUATION SHEET

(16) ITEM NO	(17) RADIO NUCLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) ACTIVITY EACH CONTAINER (mCi)	(20) PHYSICAL FORM	(21) CHEMICAL FORM AND NAME & % OF CHELATING AGENT	(22) WASTE DESCRIPTION	(23) WASTE FORM CLASS	(24) STABILITY CLASS (S U)	(25) SPECIAL NUCLEAR MATERIAL (grams)	(26) SOURCE MATERIAL (pounds)	(27) DISPOSABLE CONTAINER WEIGHT (pounds)	(28) DISPOSABLE CONTAINER VOLUME (Cu Ft)	(29) CONTAINER TYPE	(30) RADIATION LEVELS CON-TAINER (T T) SURFACE : METER DPM/HR MR/HR		(31) CONTAMINATION CON-TAINER SURFACE (DPM/100cm <sup>2</sup> ) Alpha Beta Gamma	(32) DOT SUB TYPE (A1 A2 LSA etc.)	(33) FISS-LE CI ASS	(34) LABELS/ MARKINGS USED
AMB4																			
101	U238	NA	.0028	Solid	Metal	Contaminated	A	1	NA	0.1	5890	65	Strong	.008	.020	MDA	LSA	NA	Radioactive— LSA
	Pb232		.004		Oxides	h. l. p. hlo/							Tight						Radioactive—
						plant hardware							Stc						Radioactive—
102	U238										5855			.050	.016				Radioactive—
	Pb232																		Radioactive—
103	U238										4916			.070	.019				Radioactive—
	Pb232																		Radioactive—
104	U238										5310			.070	.023				Radioactive—
	Pb232																		Radioactive—
105	U238										4783			.015	.011				Radioactive—
	Pb232																		Radioactive—
106	U238										5764			.050	.020				Radioactive—
	Pb232																		Radioactive—
107	U238										5315			.065	.019				Radioactive—
	Pb232																		Radioactive—
108	U238										5182			.055	.018				Radioactive—
	Pb232																		Radioactive—
																			Radioactive—
																			Radioactive—
																			Radioactive—
																			Radioactive—
																			Radioactive—
																			Radioactive—
																			Radioactive—
																			Radioactive—
																			Radioactive—
																			Radioactive—
B			.054								42515	530							Radioactive—

(9-83)

CUSTOMER'S COPY

UCCNHT0002373

(1) GENERATOR NAME UMETCO MINERALS CORP  
ADDRESS 137-47<sup>TH</sup> STREET

CITY NIAGARA FALLS STATE N.Y.

CONTACT G.E. WALCK PHONE 716-278-3361

(2) **consigned to**  
CHEM NUCLEAR SYSTEMS, INC  
P O BOX 726, OSBORN ROAD  
BARNWELL, S C 29812

## BARNWELL WASTE MANAGEMENT FACILITY

Operated by CHEM-NUCLEAR SYSTEMS, INC  
P O Box 726, Barnwell, South Carolina 29812  
(803) 259 1781

### RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON  
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO

PAGE 1

0884-322A

OF 2

(4) TRI-STATE

CARRIER ADDRESS Toplin, MISSOURI 6480

TELEPHONE 417-624-3131 SHIPPING DATE 8-14-84

SHIPMENT TYPE VAN SHIPMENT SURFACE EXPOSURE 0.070 mR/hr

SHIPMENT NO 615-3001 LINER SERIAL NO —

DRIVER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n.o.s. —Radioactive Material	UN2918
<u>8</u>	<u>42515</u>	Radioactive Material, low specific activity, n.o.s. —Radioactive Material	UN2912
		Radioactive Material, n.o.s. —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n.o.s. —Radioactive Material	UN2910
		Radioactive Material, special form, n.o.s. —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS								SOURCE (Pounds)
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)						
		□ Curies    □ Millicuries						
		ALL ISOTOPES	TRITIUM	C 14	Tc 99	I 129		
520	8	.068	NP	NP	NP	NP	0.8	

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	<u>N/A</u>
U 235	<u>N/A</u>
TOTAL	<u>N/A</u>

(8) TOTAL PALLET VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION CONTAMINATED BUILDING RUBBLE (10) PHYSICAL FORM/  
SOLIDIFICATION AGENT SOLID

(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) METAL OXIDES

(12) WASTE FORM CLASS A ☒ A ☐ B ☐ C

(13) ☒ Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

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Signature G.E. Walck 8-17-84

Company UMETCO MINERALS CORP. Date \_\_\_\_\_

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Date 8-17-84 By G.E. Walck

Title and Organization CONSTR. Supt.

Telephone No 716 278-3361

### CNSI USE ONLY

☐ This material meets all license requirements

☐ This material was disposed of in accordance with license

☐ Discrepancy \_\_\_\_\_

### DISPOSAL SITE COPY

Form No CNS 201

(9-83)

SEE INSTRUCTIONS ON REVERSE SIDE  
FOR FILLING OUT THIS FORM

Arrival Date \_\_\_\_\_ Arrival Survey No \_\_\_\_\_

Date/Time Buried \_\_\_\_\_ H P Initial \_\_\_\_\_

Trench No \_\_\_\_\_ Location Code \_\_\_\_\_

Waste Class Code \_\_\_\_\_

Personnel Exposure \_\_\_\_\_

Date \_\_\_\_\_

Authorized Signature \_\_\_\_\_ Title \_\_\_\_\_

UCCNHT0002374

(1) GENERATOR NAME UMETCO MINERALS CORP  
ADDRESS 137-47TH STREET  
CITY Niagara Falls STATE N.Y.  
CONTACT G.E. Walck PHONE 716-278-3361

(2) consigned to  
CHEM NUCLEAR SYSTEMS, INC  
P O BOX 726, OSBORN ROAD  
BARNWELL, S C 29812

BARNWELL WASTE MANAGEMENT FACILITY  
Operated by CHEM-NUCLEAR SYSTEMS, INC  
P O Box 726, Barnwell, South Carolina 29812  
(803) 259-1781  
RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON  
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VOLUME ALLOCATION NO.

0884-322A

PAGE

OF

(4) TRI-STATE

CARRIER ADDRESS Joplin, Missouri 64801

TELEPHONE 417-624-3131 SHIPPING DATE 8-14-84

SHIPMENT TYPE VAN SHIPMENT SURFACE EXPOSURE 0.070 mR/hr

SHIPMENT NO 615-3001 LINER SERIAL NO

DRIVER SIGNATURE DATE

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
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<u>23</u>	<u>42519</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
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		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
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VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
		ALL ISOTOPES	TRITIUM	C 14	Tc 99	I 129	
<u>520</u>	<u>8</u>	<u>.068</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>0.8</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	<u>N/A</u>
U 235	<u>1</u>
TOTAL	

(8) TOTAL PALLET VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION CONTAMINATED BUILDING RUBBLE (10) PHYSICAL FORM/ SOLIDIFICATION AGENT SOLID

(13) ☒ Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

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Signature G. E. Walck 8-17-84  
Company UMETCO MINERALS CORP Date

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(12) WASTE FORM CLASS ☒ A ☐ B ☐ C

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Date 8-17-84 By G. E. Walck  
Title and Organization CONST. SUPT  
Telephone No 716 278-3361

CNSI USE ONLY

☐ This material meets all license requirements

☐ This material was disposed of in accordance with license

☐ Discrepancy

Date

Authorized Signature Title

CUSTOMER'S COPY

Form No CNS 201

(9-83)

SEE INSTRUCTIONS ON REVERSE SIDE  
FOR FILLING OUT THIS FORM

Arrival Date Arrival Survey No

Date/Time Buried H P Initial

Trench No Location Code

Waste Class Code

Personnel Exposure

UCCNHT0002375

(1) GENERATOR NAME UNATECO MINERALS CORP  
ADDRESS 137- 47TH STREET  
CITY NIMBARA FALLS STATE ALU  
CONTACT G. E. WALCK PHONE 716-270-3361

(2) consigned to  
CHEM NUCLEAR SYSTEMS, INC  
P O BOX 726, OSBORN ROAD  
BARNWELL, S C 29812

BARNWELL WASTE MANAGEMENT FACILITY  
Operated by CHEM-NUCLEAR SYSTEMS, INC  
P O Box 726, Barnwell, South Carolina 29812  
(803) 259-1781  
RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON ALL CONTINUATION PAGES  
VOLUME ALLOCATION NO 0800-322A PAGE 1 OF 2

(4) TRI-STATE CARRIER ADDRESS TOPLIN, MISSOURI 6480  
TELEPHONE 817-624-3131 SHIPPING DATE 8-14-84  
SHIPMENT TYPE VAN SHIPMENT SURFACE EXPOSURE 0.070 mR/hr  
SHIPMENT NO 615-3001 LINER SERIAL NO \_\_\_\_\_  
DRIVER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172 101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>2</u>	<u>29515</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
		ALL ISOTOPES	TRITIUM	C 14	Tc 99	I 129	
<u>520</u>	<u>8</u>	<u>.068</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>0.0</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	<u>N/A</u>
U 235	<u>1</u>
TOTAL	<u>1</u>

(9) WASTE DESCRIPTION CONTAMINATED BUILDING RUBBLE (10) PHYSICAL FORM/ SOLIDIFICATION AGENT SOLID

(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) METAL OXIDES.

(12) WASTE FORM CLASS ☒ A ☐ B ☐ C

(13) ☒ Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(15) "Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended, and the Nuclear Regulatory Commission's License No 12 13536 01 as amended, and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations "

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation  
Signature A. F. Walck Date 8-17-84  
Company UNATECO MINERALS - CORP.

Date 8-17-84 By A. F. Walck  
Title and Organization CONSULT. Supt.  
Telephone No 716 270-3361

CNSI USE ONLY

☐ This material meets all license requirements  
☐ This material was disposed of in accordance with license  
☐ Discrepancy \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Date \_\_\_\_\_  
Authorized Signature \_\_\_\_\_ Title \_\_\_\_\_

TRIPLICATE COPY

Form No CNS 201  
(9-83)

SEE INSTRUCTIONS ON REVERSE SIDE FOR FILLING OUT THIS FORM

Arrival Date \_\_\_\_\_ Arrival Survey No \_\_\_\_\_  
Date/Time Buried \_\_\_\_\_ H P Initial \_\_\_\_\_  
Trench No \_\_\_\_\_ Location Code \_\_\_\_\_  
Waste Class Code \_\_\_\_\_  
Personnel Exposure \_\_\_\_\_

UCCNHT0002376

DATE AND TIME RECEIVED \_\_\_\_\_

Page 1 of 1

(4) Volume Allocation No XXXXXXXXXX C884-322A

LINER SERIAL # 612

Project # \_\_\_\_\_

(e)

Type Containers  
This Shipment

Wood Boxes

(21)  
TOTAL

(4/80)

White Accompany Shipment Yellow Customer Pink Carrier

UCCNHT0002377



CHEM-NUCLEAR SYSTEMS, INC

INSTRUCTIONS FOR COMPLETING RADIOACTIVE SHIPMENT RECORD FORM

NOTE SHIPMENT MAY BE REFUSED IF CONTENTS, SUPPORTING DOCUMENTATION AND PACKING REQUIREMENTS ARE NOT IN COMPLIANCE WITH CHEM-NUCLEAR SYSTEMS INC'S STATE AND FEDERAL LICENSES, THE BARNWELL SITE CRITERIA AND APPLICABLE DOT AND NRC SHIPPING REGULATIONS

GENERAL

Customer or shipper must provide (printed or typed) information in all numbered column headings  
An authorized representative of the company must sign and date the State of South Carolina and DOT Certification statements

ITEM	REFERENCE	DESCRIPTION OF ITEMS		
# * (1)	10 CFR 71 62 49 CFR 172 306	Indicate company name (consignor), address, contact person and phone number of person for shipment		
# (2)	10 CFR 71 62 49 CFR 172 306	Indicate company name (consignee) to whom shipment is being made and company name of carrier transporting material Driver to sign and date form at pickup		
# (3a)	49 CFR 172 202	Check appropriate block for material being shipped		
(3b)	49 CFR 172 202	Enter total number of containers in this shipment		
(3c)	10 CFR 71 202 49 CFR 172 202	Enter total quantity of radioactivity in this shipment in millicuries *NOTE 3 (b) (c) and (d) constitutes a summary for the entire shipment and need be entered one time on page one of shipping papers		
(3d)	49 CFR 172 202	Enter total volume of waste in this shipment in cubic feet		
(3e)	49 CFR 172 202	Enter type of containers in this shipment (55 gal drums, wood boxes, steel liner(s) 55 gal drums and boxes, etc )		
* (4)	BSDC	Indicate volume allocation number assigned to this shipment		
# (5)	10 CFR 71 62	Record the date of shipment and other data as requested For CNSI liners, record liner serial # on side of liner, or if liner is in cask, serial # is on ID tag in pouch affixed to placard on trailer		
# (6)	49 CFR 172 203	List each container separately Identification on package itself shall match number in this column		
# * (7)	10 CFR 71 62 49 CFR 172 203 49 CFR 173 390	List each radionuclide contained in each container The terms MFP and MCP <b>are not permitted</b> Use as many lines as are required Corresponding entries are required in column 8 NOTE If more than one container in the shipment contains the same activity distribution of each radionuclide, then a listing of radionuclides is required only for the first container of this series Subsequent containers in a series must be so designated		
# * (8)	49 CFR 172 203 BSDC	Record the % abundance OR the activity in mci of each isotope in each container (see item 7 above)		
# (9)	49 CFR 172 203	Indicate whether material is solid gas, or biological		
# (10)	49 CFR 172 203	Indicate chemical form of material For example		
		CHEMICAL FORM	WASTE DESCRIPTION	SPECIAL NOTE
		Metal oxides	Compacted Trash	ALL RESIN
		Deposited metal oxides,	Dewatered Resin	shipments <b>MUST</b>
		Urea Formaldehyde	Solidified Liquid	be accompanied
		SrCl2, Na, etc	Laboratory Trash	with a <b>COMPUTER</b>
				<b>PRINTOUT ANALYSIS</b>
* (11)	BSDC	Indicate whether evaporator bottoms, filters, resin, metal, animal carcasses, trash, etcetera		
* (12)	NRC License	Weight, in grams, of isotope U-235 contained in each container		
* (13)	NRC License	Weight, in pounds, of isotope U-238 or Th-232		
# (14)	49 CFR 172 310	Indicate weight of disposable container (including contents)		
* (15)	BSDC	List the volume of the disposable container including skids (if used) Pallèts, bracework, and dunnage are chargeable, but not classified as radioactive waste and will not be deducted from a customer's allocation		
# (16)		Indicate DOT/NRC container specification if applicable, such as Spec 7A, Type B, Strong Tight Container (STC), DOT 17H		
(17)	49 CFR 173 389 49 CFR 177 842	Record the highest measured radiation level for each disposable container surface Package surface maybe the same as disposable container if a cask is not used Transport Index (T I ) equals mR/HR at three feet from <b>accessible</b> container(s)		
# (18)	49 CFR 173 397 BSDC	Record removable contamination levels on package surfaces Do not use the initials BKG for background unless the background level is indicated on the shipping papers		
# (19)	49 CFR 173 390	List Transport group of each radionuclide		
# (20)	49 CFR 172 403	List the type label applied to each package, if not excepted by 49 CFR 173 391 or 392		
# * (21)		Total each page in specified columns The totals of each page in columns 6, 8, and 15 should be added together and entered in 3b, 3c, and 3d respectively <b>on page one only</b> The shipment total in box 3d should match the volume allocated on the PNP Form for this shipment		
# (22)	49 CFR 173 392	Indicate if shipment is transported as exclusive use or not applicable If "yes" is checked, <b>instructions for maintenance of exclusive use vehicles must be provided by the shipper to the carrier</b>		
# (23)	49 CFR 172 204	Sign form as required per DOT		
* (24)	S C LIC 097	Sign form as required per S C 097 License		

# Required information on shipping papers by DOT and/or NRC  
\* Required information on shipping papers by Barnwell Facility

(1) GENERATOR NAME UMETCO MINERALS CORP  
ADDRESS 137-47<sup>TH</sup> STREET  
CITY NIGARA FALLS STATE N.Y.  
CONTACT G.E. WALCK PHONE 716-278-3361

(2) consigned to  
CHEM NUCLEAR SYSTEMS, INC  
P O BOX 726 OSBORN ROAD  
BARNWELL S C 29812

BARNWELL WASTE MANAGEMENT FACILITY  
Operated by CHEM NUCLEAR SYSTEMS, INC  
P O Box 726, Barnwell, South Carolina 29812  
(803) 259-1781  
RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON  
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO

PAGE

0804-322A

OF 2

(4) TRI-STATE  
CARRIER ADDRESS Joplin, Missouri  
TELEPHONE 417-624-3131 SHIPPING DATE 8-14-84  
SHIPMENT TYPE VAN SHIPMENT SURFACE EXPOSURE 0.070 mR/hr  
SHIPMENT NO 615-3001 LINER SERIAL NO \_\_\_\_\_  
DRIVER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO. OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n.o.s. —Radioactive Material	UN2918
<u>8</u>	<u>41515</u>	Radioactive Material, low specific activity, n.o.s. —Radioactive Material	UN2912
		Radioactive Material, n.o.s. —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n.o.s. —Radioactive Material	UN2910
		Radioactive Material, special form, n.o.s. —Radioactive Material	UN2974
		Radioactive Material, instruments and articles —Radioactive Material	UN2911
		Other (Specify)	

(6)		SHIPMENT TOTALS						SOURCE (Pounds)
VOLUME (Cubic Feet)	TOTAL NO. OF PACKAGES	ACTIVITY (10CFR 20.3.1)						
		Curies		Milecuries				
		ALL ISOTOPIES	TRITIUM	C 14	Tc 99	I 129		
520	8	.068	NP	NP	NP	NP	0.8	

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	<u>N/A</u>
U 235	<u>N/A</u>
TOTAL	<u>N/A</u>

(8) TOTAL PALLET VOLUME (CU FT) N/A.

(9) WASTE DESCRIPTION CONTAMINATED BUILDING RUBBLE (10) PHYSICAL FORM/ SOLIDIFICATION AGENT SOLID

(13) ☒ Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(14) IMPORTANT This is to certify that the above named materials are properly classified described packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature

Company

8-17-84

Date

(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) METHAL OXIDES

(12) WASTE FORM CLASS ☒ A ☐ B ☐ C

(15) Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No. 097 as amended and the Nuclear Regulatory Commission's License No. 12 13536 01 as amended and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment and further certification is made that the inspection revealed no items of non compliance with all applicable laws rules and regulations

Date

Title and Organization

Telephone No

By

Cons. Supt

716 278-3361

CNSI USE ONLY

☐ This material meets all license requirements

☐ This material was disposed of in accordance with license

☐ Discrepancy

DISPOSAL SITE COPY

Form No CNS 201

(9-83)

SEE INSTRUCTIONS ON REVERSE SIDE  
FOR FILLING OUT THIS FORM

Arrival Date

Date/Time Buried

Trench No

Waste Class Code

Arrival Survey No

H. P. Initial

Location Code

Personnel Exposure

Date

Authorized Signature

Title

TO L ROUSE

PAGE 1 of 2

UCCCNHT00002379

Underhill & Co. Inc.

THE UNIVERSITY OF CHICAGO

CONFIRMATION SHEET

101 ITEM NO.	102 NAME OF ITEM	103 INVENTORY LOCATION	104 INVENTORY DATE	105 INVENTORY BY	106 INVENTORY CHECKED	107 INVENTORY DATE	108 INVENTORY BY	109 INVENTORY CHECKED	110 INVENTORY DATE	111 INVENTORY BY	112 INVENTORY CHECKED	113 INVENTORY DATE	114 INVENTORY BY	115 INVENTORY CHECKED	116 INVENTORY DATE	117 INVENTORY BY	118 INVENTORY CHECKED	119 INVENTORY DATE	120 INVENTORY BY	121 INVENTORY CHECKED	122 INVENTORY DATE	123 INVENTORY BY	124 INVENTORY CHECKED	125 INVENTORY DATE	126 INVENTORY BY	127 INVENTORY CHECKED	128 INVENTORY DATE	129 INVENTORY BY	130 INVENTORY CHECKED	131 INVENTORY DATE	132 INVENTORY BY	133 INVENTORY CHECKED	134 INVENTORY DATE	135 INVENTORY BY	136 INVENTORY CHECKED	137 INVENTORY DATE	138 INVENTORY BY	139 INVENTORY CHECKED	140 INVENTORY DATE	141 INVENTORY BY	142 INVENTORY CHECKED	143 INVENTORY DATE	144 INVENTORY BY	145 INVENTORY CHECKED	146 INVENTORY DATE	147 INVENTORY BY	148 INVENTORY CHECKED	149 INVENTORY DATE	150 INVENTORY BY	151 INVENTORY CHECKED	152 INVENTORY DATE	153 INVENTORY BY	154 INVENTORY CHECKED	155 INVENTORY DATE	156 INVENTORY BY	157 INVENTORY CHECKED	158 INVENTORY DATE	159 INVENTORY BY	160 INVENTORY CHECKED	161 INVENTORY DATE	162 INVENTORY BY	163 INVENTORY CHECKED	164 INVENTORY DATE	165 INVENTORY BY	166 INVENTORY CHECKED	167 INVENTORY DATE	168 INVENTORY BY	169 INVENTORY CHECKED	170 INVENTORY DATE	171 INVENTORY BY	172 INVENTORY CHECKED	173 INVENTORY DATE	174 INVENTORY BY	175 INVENTORY CHECKED	176 INVENTORY DATE	177 INVENTORY BY	178 INVENTORY CHECKED	179 INVENTORY DATE	180 INVENTORY BY	181 INVENTORY CHECKED	182 INVENTORY DATE	183 INVENTORY BY	184 INVENTORY CHECKED	185 INVENTORY DATE	186 INVENTORY BY	187 INVENTORY CHECKED	188 INVENTORY DATE	189 INVENTORY BY	190 INVENTORY CHECKED	191 INVENTORY DATE	192 INVENTORY BY	193 INVENTORY CHECKED	194 INVENTORY DATE	195 INVENTORY BY	196 INVENTORY CHECKED	197 INVENTORY DATE	198 INVENTORY BY	199 INVENTORY CHECKED	200 INVENTORY DATE	201 INVENTORY BY	202 INVENTORY CHECKED	203 INVENTORY DATE	204 INVENTORY BY	205 INVENTORY CHECKED	206 INVENTORY DATE	207 INVENTORY BY	208 INVENTORY CHECKED	209 INVENTORY DATE	210 INVENTORY BY	211 INVENTORY CHECKED	212 INVENTORY DATE	213 INVENTORY BY	214 INVENTORY CHECKED	215 INVENTORY DATE	216 INVENTORY BY	217 INVENTORY CHECKED	218 INVENTORY DATE	219 INVENTORY BY	220 INVENTORY CHECKED	221 INVENTORY DATE	222 INVENTORY BY	223 INVENTORY CHECKED	224 INVENTORY DATE	225 INVENTORY BY	226 INVENTORY CHECKED	227 INVENTORY DATE	228 INVENTORY BY	229 INVENTORY CHECKED	230 INVENTORY DATE	231 INVENTORY BY	232 INVENTORY CHECKED	233 INVENTORY DATE	234 INVENTORY BY	235 INVENTORY CHECKED	236 INVENTORY DATE	237 INVENTORY BY	238 INVENTORY CHECKED	239 INVENTORY DATE	240 INVENTORY BY	241 INVENTORY CHECKED	242 INVENTORY DATE	243 INVENTORY BY	244 INVENTORY CHECKED	245 INVENTORY DATE	246 INVENTORY BY	247 INVENTORY CHECKED	248 INVENTORY DATE	249 INVENTORY BY	250 INVENTORY CHECKED	251 INVENTORY DATE	252 INVENTORY BY	253 INVENTORY CHECKED	254 INVENTORY DATE	255 INVENTORY BY	256 INVENTORY CHECKED	257 INVENTORY DATE	258 INVENTORY BY	259 INVENTORY CHECKED	260 INVENTORY DATE	261 INVENTORY BY	262 INVENTORY CHECKED	263 INVENTORY DATE	264 INVENTORY BY	265 INVENTORY CHECKED	266 INVENTORY DATE	267 INVENTORY BY	268 INVENTORY CHECKED	269 INVENTORY DATE	270 INVENTORY BY	271 INVENTORY CHECKED	272 INVENTORY DATE	273 INVENTORY BY	274 INVENTORY CHECKED	275 INVENTORY DATE	276 INVENTORY BY	277 INVENTORY CHECKED	278 INVENTORY DATE	279 INVENTORY BY	280 INVENTORY CHECKED	281 INVENTORY DATE	282 INVENTORY BY	283 INVENTORY CHECKED	284 INVENTORY DATE	285 INVENTORY BY	286 INVENTORY CHECKED	287 INVENTORY DATE	288 INVENTORY BY	289 INVENTORY CHECKED	290 INVENTORY DATE	291 INVENTORY BY	292 INVENTORY CHECKED	293 INVENTORY DATE	294 INVENTORY BY	295 INVENTORY CHECKED	296 INVENTORY DATE	297 INVENTORY BY	298 INVENTORY CHECKED	299 INVENTORY DATE	300 INVENTORY BY	301 INVENTORY CHECKED	302 INVENTORY DATE	303 INVENTORY BY	304 INVENTORY CHECKED	305 INVENTORY DATE	306 INVENTORY BY	307 INVENTORY CHECKED	308 INVENTORY DATE	309 INVENTORY BY	310 INVENTORY CHECKED	311 INVENTORY DATE	312 INVENTORY BY	313 INVENTORY CHECKED	314 INVENTORY DATE	315 INVENTORY BY	316 INVENTORY CHECKED	317 INVENTORY DATE	318 INVENTORY BY	319 INVENTORY CHECKED	320 INVENTORY DATE	321 INVENTORY BY	322 INVENTORY CHECKED	323 INVENTORY DATE	324 INVENTORY BY	325 INVENTORY CHECKED	326 INVENTORY DATE	327 INVENTORY BY	328 INVENTORY CHECKED	329 INVENTORY DATE	330 INVENTORY BY	331 INVENTORY CHECKED	332 INVENTORY DATE	333 INVENTORY BY	334 INVENTORY CHECKED	335 INVENTORY DATE	336 INVENTORY BY	337 INVENTORY CHECKED	338 INVENTORY DATE	339 INVENTORY BY	340 INVENTORY CHECKED	341 INVENTORY DATE	342 INVENTORY BY	343 INVENTORY CHECKED	344 INVENTORY DATE	345 INVENTORY BY	346 INVENTORY CHECKED	347 INVENTORY DATE	348 INVENTORY BY	349 INVENTORY CHECKED	350 INVENTORY DATE	351
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Form No. 145 (Rev. 2011)  
(9-83)

Page 2 of 2

ADD 315 TVSO&SIO

UCCNHT0002380